

**I CLAIM:**

1. An adjustable cushioning device for an impact testing machine, said cushioning device comprising:

5 a seat to be supported in the impact testing machine, said seat including an outer thread formed in an outer peripheral portion thereof,

a pad disposed on said seat, and

a housing including a chamber formed therein to slidably receive said pad, and including an inner thread to thread with said  
10 outer thread of said seat, and to adjust said housing up and down relative to said seat when said housing is rotated relative to said seat, and

said housing being adjustable up and down relative to said seat to adjust a height of an exposing portion of said pad that  
15 exposable upwardly beyond said housing.

2. The adjustable cushioning device as claimed in claim 1 further comprising means for limiting a movement of said housing relative to said seat.

3. The adjustable cushioning device as claimed in claim 2,  
20 wherein said limiting means includes a block secured on top of said seat, said block includes a peripheral rib extended radially outward therefrom and extended radially and outwardly beyond said seat, to engage with said housing and to limit the movement of said housing relative to said seat.

25 4. The adjustable cushioning device as claimed in claim 3 further comprising at least one pin engaged between said block and said seat, to prevent said block from being rotated relative to said

seat.

5        5. The adjustable cushioning device as claimed in claim 4,  
wherein said seat includes at least one step hole formed therein to  
partially receive said at least one pin, and said at least one pin  
includes a peripheral swelling received in said at least one step hole  
of said seat.

10       6. The adjustable cushioning device as claimed in claim 3,  
wherein said housing includes a peripheral flange extended radially  
into said chamber thereof, and engageable with said peripheral rib  
of said block, and to limit the movement of said housing relative to  
said seat.

7. The adjustable cushioning device as claimed in claim 3  
further comprising a base, and a fastener securing said block and  
said seat and said base together.

15       8. The adjustable cushioning device as claimed in claim 7,  
wherein said base includes a center hole formed therein, said seat  
includes a bore formed therein and aligned with said center hole of  
said base to receive said fastener, and said block includes a screw  
hole formed therein to thread with said fastener, and to secure said  
20       block and said seat and said base together.

25       9. The adjustable cushioning device as claimed in claim 7,  
wherein said base includes a depression formed therein, said seat  
includes a lower portion received in said depression of said base, to  
prevent said seat from being moved laterally and radially relative to  
said base.

10. The adjustable cushioning device as claimed in claim 1  
further comprising a ferrule secured on top of said housing, for

facilitating a rotation of said housing relative to said seat.

11. The adjustable cushioning device as claimed in claim 1 further comprising means for positioning said housing to said seat.

12. The adjustable cushioning device as claimed in claim 11,  
5 wherein said positioning means includes at least one spring biased detent received in said housing, and engageable with said seat, to position said housing to said seat.

13. The adjustable cushioning device as claimed in claim 12,  
wherein said housing includes at least one lateral passage formed  
10 therein to slidably receive said detent, said positioning means further includes a spring received in said at least one lateral passage of said housing and engaged with said detent, to bias said detent to engage with said seat.

14. The adjustable cushioning device as claimed in claim 13,  
15 wherein said housing includes a screw threaded to said at least one lateral passage thereof, to retain said spring and said detent in said at least one lateral passage thereof.